

6-11-01

FORM PTO-1449/A and B (Modified)



APPLICATION NO.: 09/809,745

ATTY. DOCKET NO.: B0801/7202

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

FILING DATE: March 15, 2001

APPLICANT: Weiner et al.

GROUP ART UNIT: unknown

EXAMINER: unknown

Sheet 1 of 4

U.S. PATENT DOCUMENTS

Examiner's Initials#	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
SWL	A1	3,561,444		Boucher	02-09-1971
	A2	3,699,963		Zaffaroni	10-24-1972
	A3	3,703,173		Dixon	11-21-1972
	A4	3,944,064		Bashaw et al.	03-16-1976
	A5	3,948,262		Zaffaroni	04-06-1976
	A6	3,993,073		Zaffaroni	11-23-1976
	A7	4,226,848		Nagai et al.	10-07-1980
	A8	4,309,404		DeNeale et al.	01-05-1982
	A9	4,309,406		Guley et al.	01-05-1982
	A10	4,556,552		Porter et al.	12-03-1985
	A11	4,624,251		Miller	11-25-1986
	A12	4,635,627		Gam	01-13-1987
	A13	4,675,189		Kent et al.	06-23-1987
	A14	4,704,295		Porter et al.	11-03-1987
	A15	4,713,243		Schiraldi et al.	12-15-1987
	A16	4,837,027		Lee et al.	06-06-1989
	A17	4,895,724		Cardinal et al.	01-23-1990
	A18	4,917,895		Lee et al.	04-17-1990
	A19	4,940,587		Jenkins et al.	07-10-1990
	A20	4,985,253		Fujioka et al.	01-15-1991
	A21	5,110,597		Wong et al.	05-05-1992
	A22	5,141,750		Lee et al.	08-25-1992
	A23	5,151,272		Engstrom et al.	09-29-1992
	A24	5,236,704		Fujioka et al.	08-17-1993
	A25	5,284,660		Lee et al.	02-08-1994
	A26	5,354,691		Van Eden et al.	10-11-1994
	A27	5,356,635		Raman et al.	10-18-1994
	A28	5,371,109		Engstrom et al.	12-06-1994
	A29	5,405,619		Santus et al.	04-11-1995
	A30	5,416,071		Igari et al.	05-16-1995
	A31	5,641,474		Hafler et al.	06-24-1997
	A32	5,840,855		Shinnick et al.	11-24-1998
	A33	5,856,305		Lucietto et al.	01-05-1999
	A34	5,869,054		Weiner et al.	02-09-1999
	A35	5,869,093		Weiner et al.	02-09-1999
SWL	A36	5,961,977		Hafler et al.	10-05-1999

FOREIGN PATENT DOCUMENTS

Examiner's Initials#	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
SWL	B1	EPO	EP 205282	B1		09-13-1995	
SWL	B2	EPO	EP 259013	B1		06-05-1991	

526258.1

FORM PTO-1449/A and B (Modified)		APPLICATION NO.: 09/809,745	ATTY. DOCKET NO.: B0801/7202
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: March 15, 2001	
		APPLICANT: Weiner et al.	
		GROUP ART UNIT: unknown	EXAMINER: unknown
Sheet	2	of	4

Swi	B3	EPO	EP 354742	B1		03-16-1994
Swi	B4	EPO	EP 516141	B1		08-14-1996
Swi	B5	WIPO	WO85/02092	A1		05-23-1985
Swi	B6	WIPO	WO88/10120	A1		12-29-1988
Swi	B7	WIPO	WO91/01333	A1		02-07-1991
Swi	B8	WIPO	WO95/11011	A1		04-27-1995
Swi	B9	WIPO	WO95/15191	A1		06-08-1995
Swi	B10	WIPO	WO95/27499	A1		10-19-1995
	B11	WIPO	WO95/27500	A1		10-19-1995
	B12	WIPO	WO00/20019	A2		04/13/2000

OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials#	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	C1	AFEK A et al., Immunization of low-density lipoprotein receptor deficient (LDL-RD) mice with heat shock protein 65 (HSP-65) promotes early atherosclerosis. <i>J Autoimmun.</i> 2000 Mar;14(2):115-21.	
	C2	DAHIYAT BI et al., De novo protein design: fully automated sequence selection. <i>Science.</i> 1997 Oct 3;278(5335):82-7.	
	C3	GEORGE J et al., Enhanced fatty streak formation in C57BL/6J mice by immunization with heat shock protein-65. <i>Arterioscler Thromb Vasc Biol.</i> 1999 Mar;19(3):505-10.	
	C4	GEORGE J et al., Requisite role for interleukin-4 in the acceleration of fatty streaks induced by heat shock protein 65 or Mycobacterium tuberculosis. <i>Circ Res.</i> 2000 Jun 23;86(12):1203-10.	
	C5	HUNTER et al., The gastric emptying of hard gelatin capsules. <i>Int J Pharmaceutics.</i> 1983; 17:59-64.	
	C6	JINDAL S et al., Primary structure of a human mitochondrial protein homologous to the bacterial and plant chaperonins and to the 65-kilodalton mycobacterial antigen. <i>Mol Cell Biol.</i> 1989 May;9(5):2279-83.	
	C7	KALMAN S et al., Comparative genomes of Chlamydia pneumoniae and C. trachomatis. <i>Nat Genet.</i> 1999 Apr;21(4):385-9.	
	C8	KAUFMANN SH, Heat shock proteins and the immune response. <i>Immunol Today.</i> 1990 Apr;11(4):129-36.	
	C9	KEREN P et al., Effect of hyperglycemia and hyperlipidemia on atherosclerosis in LDL receptor-deficient mice: establishment of a combined model and association with heat shock protein 65 immunity. <i>Diabetes.</i> 2000 Jun;49(6):1064-9.	
	C10	KIKUTA LC et al., Isolation and sequence analysis of the Chlamydia pneumoniae GroE operon. <i>Infect Immun.</i> 1991 Dec;59(12):4663-9.	
	C11	KOL A et al., Chlamydial and human heat shock protein 60s activate human vascular endothelium, smooth muscle cells, and macrophages. <i>J Clin Invest.</i> 1999 Feb;103(4):571-7.	
	C12	KOL A et al., Chlamydial heat shock protein 60 localizes in human atheroma and regulates macrophage tumor necrosis factor-alpha and matrix metalloproteinase expression. <i>Circulation.</i> 1998 Jul 28;98(4):300-7.	
	C13	KOL A et al., Cutting edge: heat shock protein (HSP) 60 activates the innate immune response: CD14 is an essential receptor for HSP60 activation of mononuclear cells. <i>J Immunol.</i> 2000 Jan 1;164(1):13-7.	
	C14	LINDQUIST S, The heat shock response. <i>Annu Rev Biochem.</i> 1986;55:1151-91.	
	C15	MACH F et al., Reduction of atherosclerosis in mice by inhibition of CD40 signalling. <i>Nature.</i> 1998 Jul 9;394(6689):200-3.	
	C16	MARON R et al., Mucosal administration of HSP 65 decreases atherosclerosis and inflammation in the aortic arch of LDL receptor deficient mice. AAI/CIS Joint Annual Meeting, Seattle, WA, 12-16 May 2000; <i>FASEB J.</i> 2000 Apr 20;14(6):A1199. (ABSTRACT No. 183.9).	

FORM PTO-1449/A and B (Modified)		JUN 2001	JC189	APPLICATION NO.: 09/809,745	ATTY. DOCKET NO.: B0801/7202
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: March 15, 2001	
				APPLICANT: Weiner et al.	
				GROUP ART UNIT: unknown	EXAMINER: unknown
Sheet 3 of 4					

C17	MERRIFIELD RB, Peptide synthesis on a solid polymer. <i>Fed Proc Am Soc Exp Biol.</i> 1962;21:412 (ABSTRACT).		
C18	MERRIFIELD RB, Solid phase peptide synthesis. I. The synthesis of a tetrapeptide. <i>J Am Chem Soc.</i> 1963 Jun 20; 85:2149-54.		
C19	METZLER B et al., Inhibition of arteriosclerosis by T-cell depletion in normocholesterolemic rabbits immunized with heat shock protein 65. <i>Arterioscler Thromb Vasc Biol.</i> 1999 Aug;19(8):1905-11.		
C20	MITCHELL AR et al., tert-Butoxycarbonylaminocetyl-4-(oxymethyl)-phenylacetamidomethyl-resin, a more acid-resistant support for solid-phase peptide synthesis. <i>J Am Chem Soc.</i> 1976 Nov 10;98(23):7357-62.		
C21	MORIMOTO RI, Heat shock: the role of transient inducible responses in cell damage, transformation, and differentiation. <i>Cancer Cells.</i> 1991 Aug;3(8):295-301.		
C22	NICOLETTI A et al., Immunomodulation of atherosclerosis: myth and reality. <i>J Intern Med.</i> 2000 Mar;247(3):397-405.		
C23	NOVER L, HSFs and HSPs--a stressful program on transcription factors and chaperones. Stress Proteins and the Heat Shock Response, sponsored by Cold Spring Harbor Laboratory, Cold Spring Harbor, NY USA, April 29-May 2, 1991. <i>New Biol.</i> 1991 Sep;3(9):855-9.		
C24	PELHAM HR, Heat shock and the sorting of luminal ER proteins. <i>EMBO J.</i> 1989 Nov;8(11):3171-6.		
C25	PELHAM HR, Speculations on the functions of the major heat shock and glucose-regulated proteins. <i>Cell.</i> 1986 Sep 26;46(7):959-61.		
C26	OIAO JH et al., Pathology of atherosomatous lesions in inbred and genetically engineered mice. Genetic determination of arterial calcification. <i>Arterioscler Thromb.</i> 1994 Sep;14(9):1480-97.		
C27	SHINNICK TM, The 65-kilodalton antigen of <i>Mycobacterium tuberculosis</i> . <i>J Bacteriol.</i> 1987 Mar;169(3):1080-8.		
C28	SHOENFELD Y et al., Atherosclerosis as an infectious, inflammatory and autoimmune disease. <i>Trends Immunol.</i> 2001 Jun;22(6):293-5.		
C29	SHOENFELD Y et al., Heat shock protein 60/65, beta 2-glycoprotein I and oxidized LDL as players in murine atherosclerosis. <i>J Autoimmun.</i> 2000 Sep;15(2):199-202.		
C30	SMART JD et al., An in-vitro investigation of mucosa-adhesive materials for use in controlled drug delivery. <i>J Pharm Pharmacol.</i> 1984 May;36(5):295-9.		
C31	THOLE JE et al., Characterization, sequence determination, and immunogenicity of a 64-kilodalton protein of <i>Mycobacterium bovis</i> -BCG expressed in <i>Escherichia coli</i> K-12. <i>Infect Immun.</i> 1987 Jun;55(6):1466-75.		
C32	WICK G et al., Role of heat shock protein 65/60 in the pathogenesis of atherosclerosis. <i>Int Arch Allergy Immunol.</i> 1995 May-Jun;107(1-3):130-1.		
C33	XU Q et al., Increased expression of heat shock protein 65 coincides with a population of infiltrating T lymphocytes in atherosclerotic lesions of rabbits specifically responding to heat shock protein 65. <i>J Clin Invest.</i> 1993 Jun;91(6):2693-702.		
C34	XU Q et al., Induction of arteriosclerosis in normocholesterolemic rabbits by immunization with heat shock protein 65. <i>Arterioscler Thromb.</i> 1992 Jul;12(7):789-99.		
C35	XU Q et al., Regression of arteriosclerotic lesions induced by immunization with heat shock protein 65-containing material in normocholesterolemic, but not hypercholesterolemic, rabbits. <i>Atherosclerosis.</i> 1996 Jun;123(1-2):145-55.		
C36	YUAN Y et al., Monoclonal antibodies define genus-specific, species-specific, and cross-reactive epitopes of the chlamydial 60-kilodalton heat shock protein (hsp60): specific immunodetection and purification of chlamydial hsp60. <i>Infect Immun.</i> 1992 Jun;60(6):2288-96.		

FORM PTO-1449/A and B (Modified)		APPLICATION NO.: 09/809,745	ATTY. DOCKET NO.: B0801/7202
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: March 15, 2001	
		APPLICANT: Weiner et al.	
		GROUP ART UNIT: unknown	EXAMINER: unknown
Sheet	4	of	4

EXAMINER	DATE CONSIDERED
<i>Seaw</i>	9-10-03

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]

01-09-02

FORM PTO-1449/A and B (Modified)		APPLICATION NO.: 09/809,745	ATTY. DOCKET NO.: B0801/7202
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: March 15, 2001 APPLICANT: Weiner et al.	
Sheet	1	of 1	GROUP ART UNIT: 1646 EXAMINER: unknown

U.S. PATENT DOCUMENTS

RECEIVED
JAN 14
TECH CENTER 1

FOREIGN PATENT DOCUMENTS

OTHER ART — NON PATENT LITERATURE DOCUMENTS

EXAMINER

DATE CONSIDERED

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]

569291.1

12-31-01

FORM PTO-1449/A and B (Modified)				APPLICATION NO.: 09/809,745	ATTY. DOCKET NO.: B0801/7202
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: March 15, 2001	TECH CENTER 1600/2901 JAN 03 2002
				APPLICANT: Weiner et al.	
				GROUP ART UNIT: 1646	
Sheet 1		of 1	EXAMINER: Unknown		

RECEIVED

U.S. PATENT DOCUMENTS

Examiner's Initials#	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code		

FOREIGN PATENT DOCUMENTS

Examiner's Initials#	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			

OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials#	Cite No.	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
Swl	C37	BERBERIAN PA et al., Immunohistochemical localization of heat shock protein-70 in normal-appearing and atherosclerotic specimens of human arteries. <i>Am J Pathol</i> . 1990 Jan; 136(1):71-80.	
Swl	C38	JOHNSON AD et al., Atherosclerosis alters the localization of HSP70 in human and macaque aortas. <i>Exp Mol Pathol</i> . 1993 Jun; 58(3):155-68.	
Swl	C39	JOHNSON AD et al., Differential distribution of 70-kD heat shock protein in atherosclerosis. Its potential role in arterial SMC survival. <i>Arterioscler Thromb Vasc Biol</i> . 1995 Jan; 15(1):27-36.	
Swl	C40	JOHNSON AD et al., Effect of heat shock proteins on survival of isolated aortic cells from normal and atherosclerotic cynomolgus macaques. <i>Atherosclerosis</i> . 1990 Oct; 84(2-3): 111-9.	

EXAMINER

Swl

DATE CONSIDERED

9-10-03

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. § 120, and the copy was provided in the earlier application.]

5-23-02

FORM PTO-1449/A and B (Modified)				APPLICATION NO.: 09/809,745	ATTY. DOCKET NO.: B0801/7202
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: March 15, 2001	RECEIVED MAY 24 2002 EXAMINER: TECH CENTER 1600/2900
MAY 23 2002				APPLICANT: Weiner et al.	
Sheet 1 of 1	of 1	GROUP ART UNIT: 1646			

U.S. PATENT DOCUMENTS					
Examiner's Initials#	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		

FOREIGN PATENT DOCUMENTS

Examiner's Initials#	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
SWL	B14	WIPO	WO95/25744	A1	Rijksuniversiteit Utrecht	09-28-1995	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials#	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
SWL	C41	CHEN W et al., Human 60-kDa heat-shock protein: a danger signal to the innate immune system. <i>J Immunol.</i> 1999 Mar 15;162(6):3212-9.	
SWL	C42	FRANCIS JN et al., The route of administration of an immunodominant peptide derived from heat-shock protein 65 dramatically affects disease outcome in pristane-induced arthritis. <i>Immunology.</i> 2000 Mar;99(3):338-44.	
SWL	C43	HAQUE MA et al., Suppression of adjuvant arthritis in rats by induction of oral tolerance to mycobacterial 65-kDa heat shock protein. <i>Eur J Immunol.</i> 1996 Nov;26(11):2650-6.	
SWL	C44	PRAKKEN BJ et al., Peptide-induced nasal tolerance for a mycobacterial heat shock protein 60 T cell epitope in rats suppresses both adjuvant arthritis and nonmicrobially induced experimental arthritis. <i>Proc Natl Acad Sci USA.</i> 1997 Apr 1;94(7):3284-9.	
SWL	C45	THOMPSON SJ et al., An immunodominant epitope from mycobacterial 65-kDa heat shock protein protects against pristane-induced arthritis. <i>J Immunol.</i> 1998 May 1;160(9):4628-34.	
SWL	C46	VAN DER ZEE R et al., T cell responses to conserved bacterial heat-shock-protein epitopes induce resistance in experimental autoimmunity. <i>Semin Immunol.</i> 1998 Feb;10(1):35-41.	
SWL	C47	VAN EDEN W et al., Heat-shock protein T-cell epitopes trigger a spreading regulatory control in a diversified arthritogenic T-cell response. <i>Immunol Rev.</i> 1998 Aug;164:169-74	

EXAMINER	DATE CONSIDERED
<i>SWL</i>	9-10-03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]